

sPHENIX INTT - calibration Analyzer

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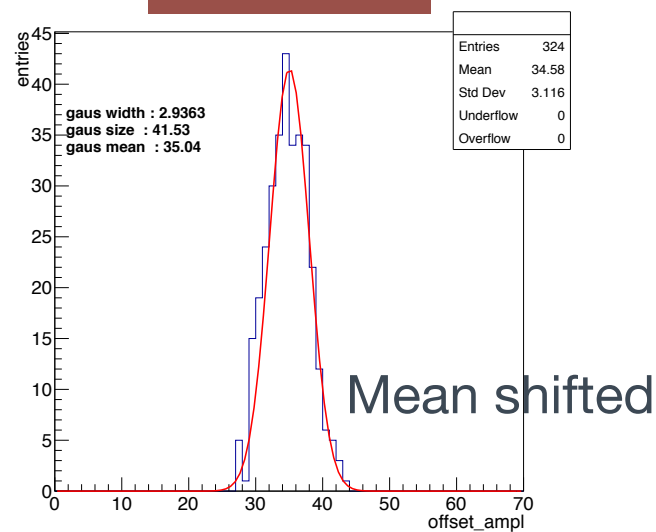


2023/03/20 INTT meeting

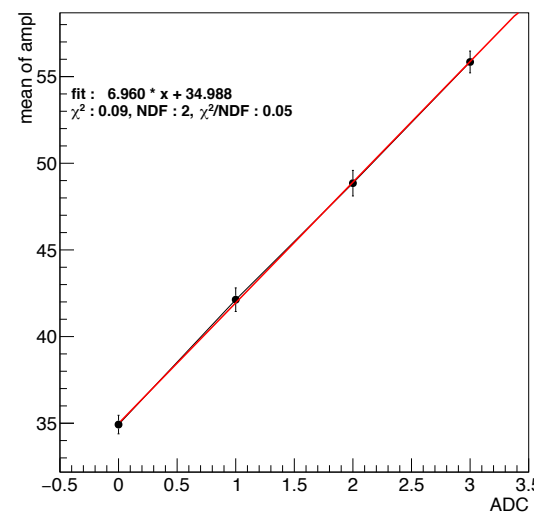


- Before the barrel construction
 - Threshold : low (adc 0 : ~ 15)
 - Classification → Tight (around 10 aspects are checked)

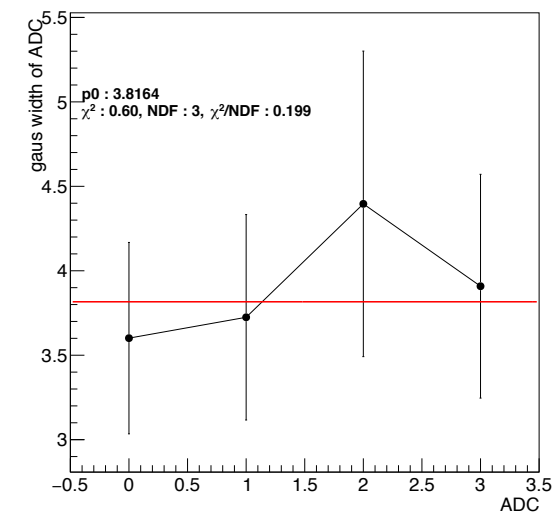
Noise level



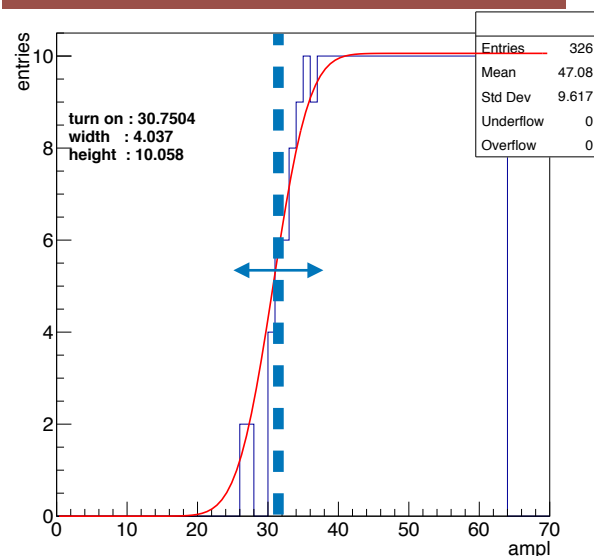
Linearity



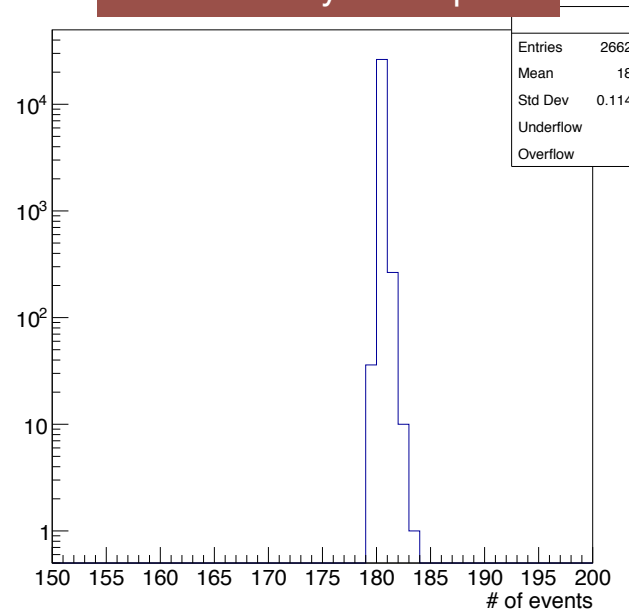
Width consistency



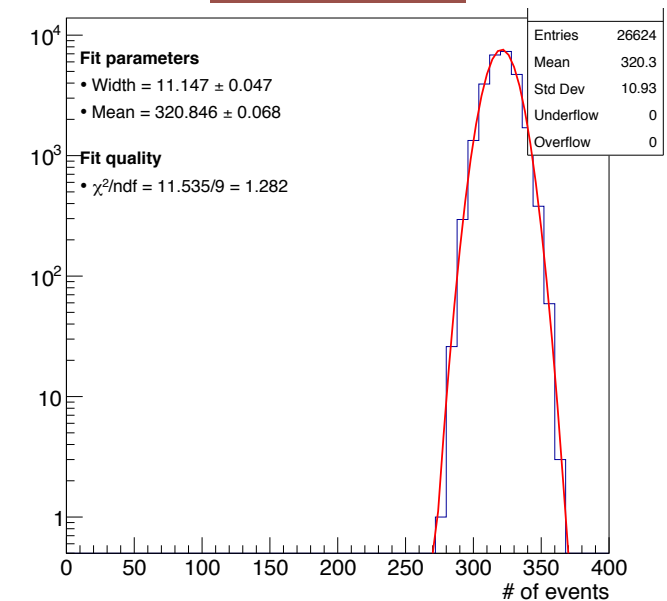
Threshold position & width



Channel entry w/ ampl cut



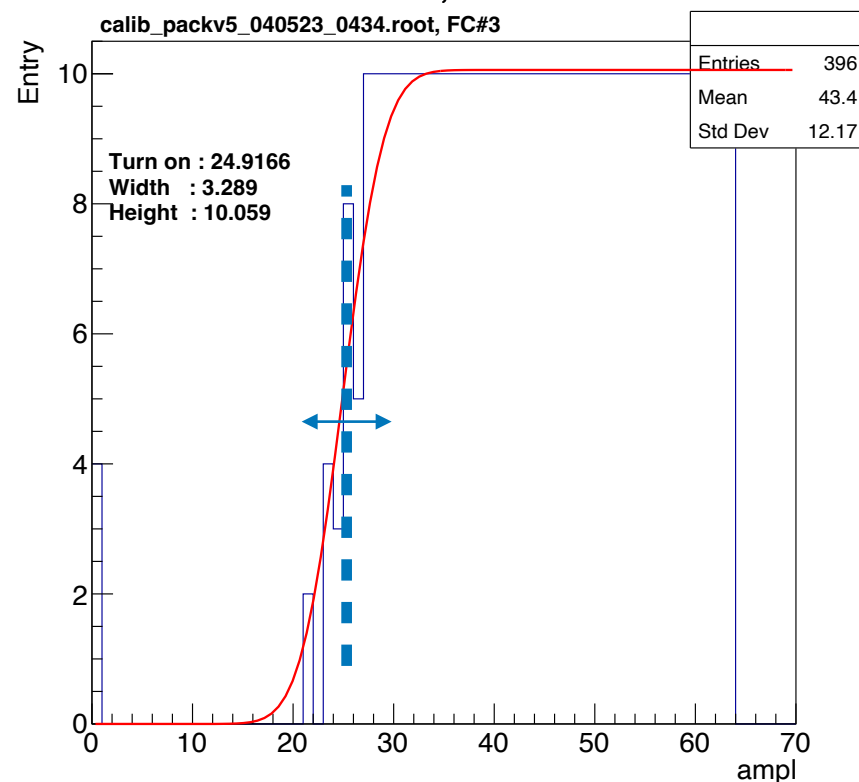
Channel entry



- Calibration at IR, with Felix readout
 - Goal : ladder inspections & calibration-data based dead-channel map.
 - Threshold : high (threshold 28 or 30 for some of the runs)
 - Classification → rough (Currently classify the channel by checks 4 aspects)

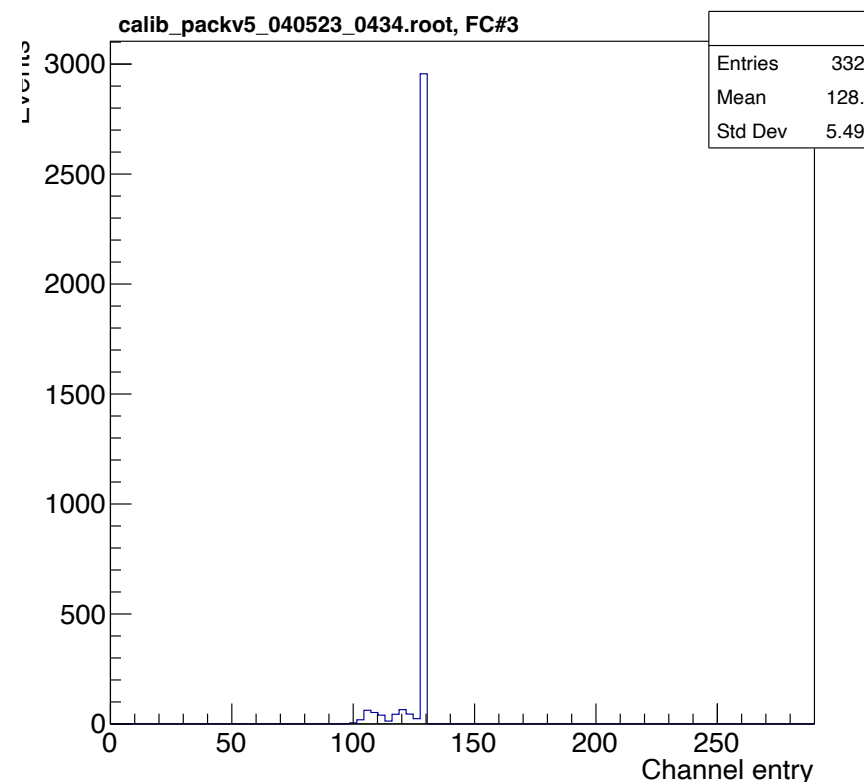
Threshold position & width

B1L002S, U26-ch0



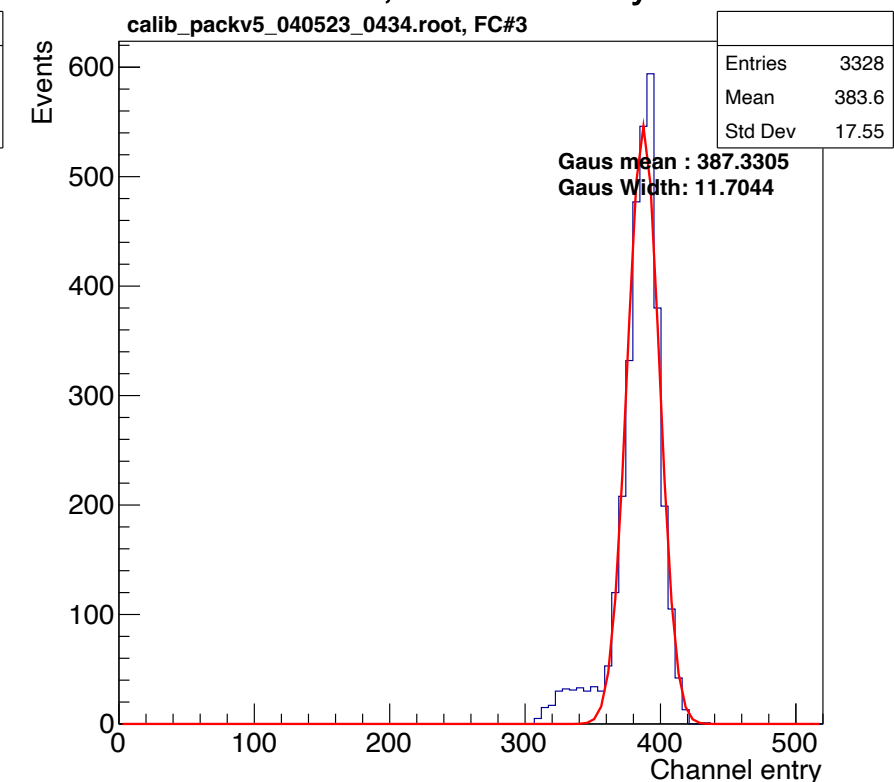
Channel entry w/ ampl cut

B1L002S, channel entry distribution (ampl > 50)

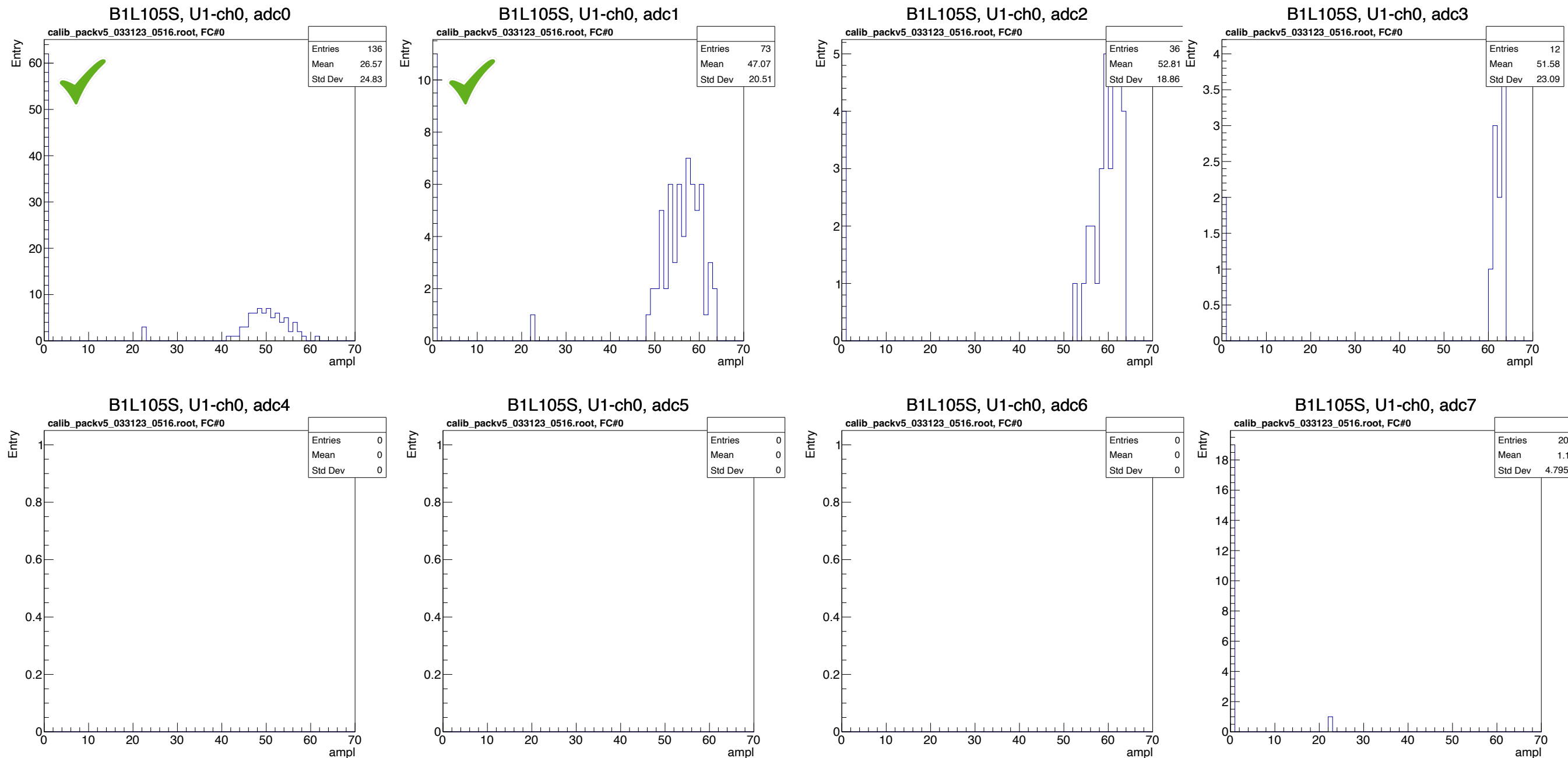


Channel entry

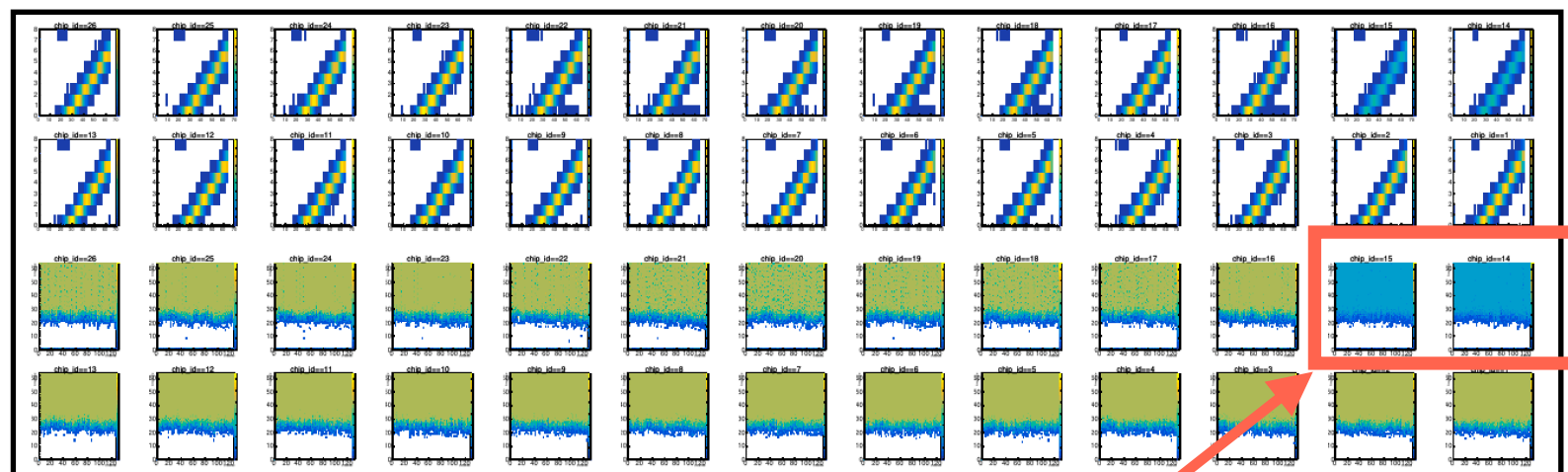
B1L002S, channel entry dist



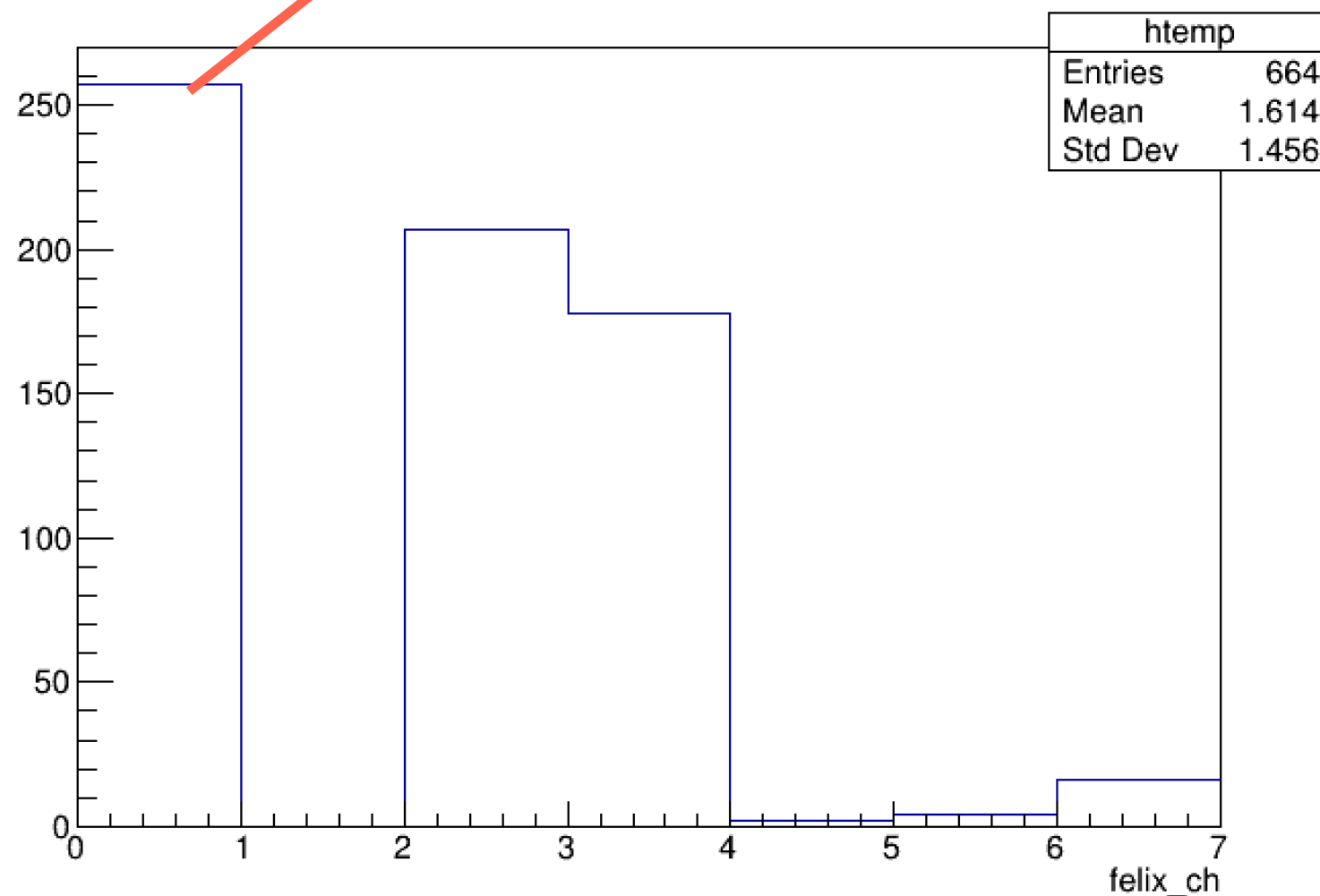
- Linearity and width consistency are not feasible for the runs with higher thresholds (ADC0 = 30 or 28).

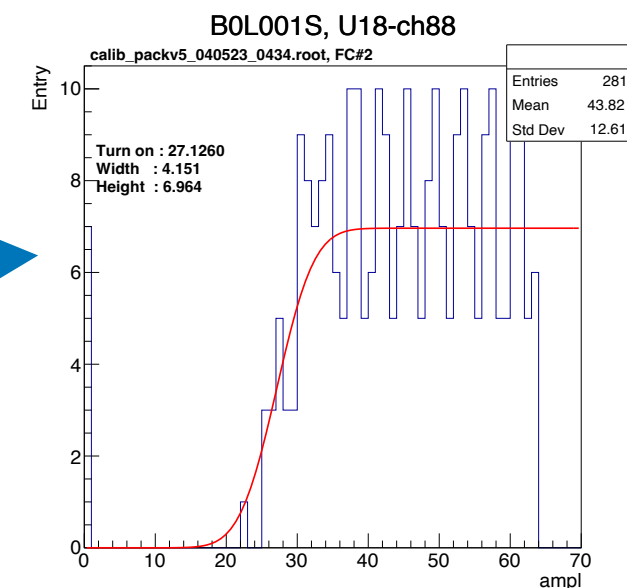
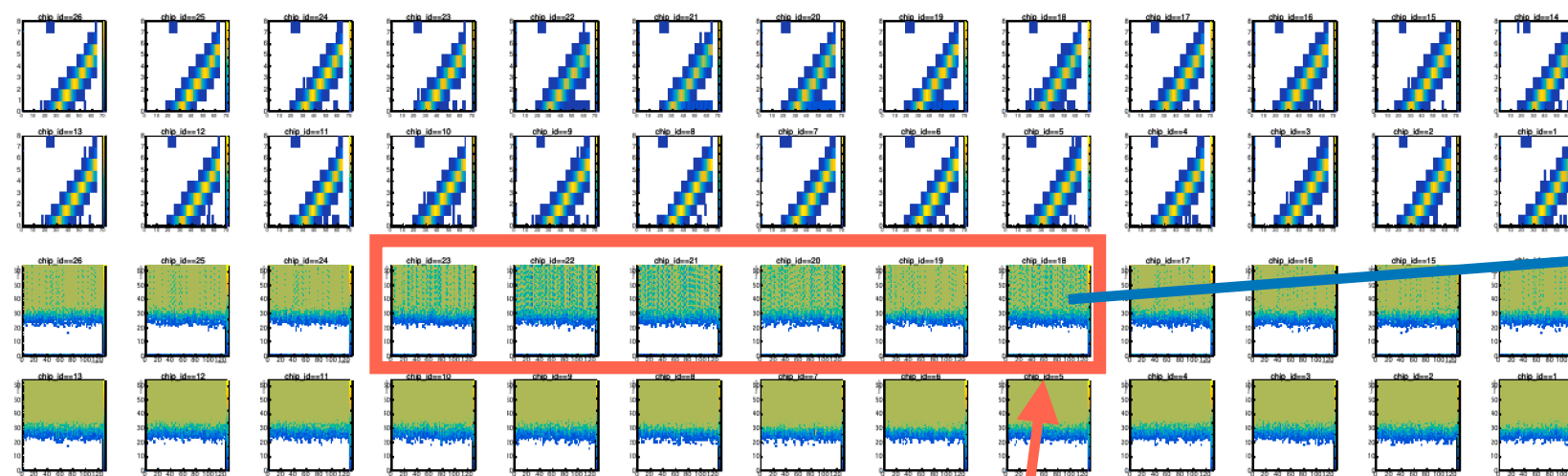


RC-1S, felix channel 0

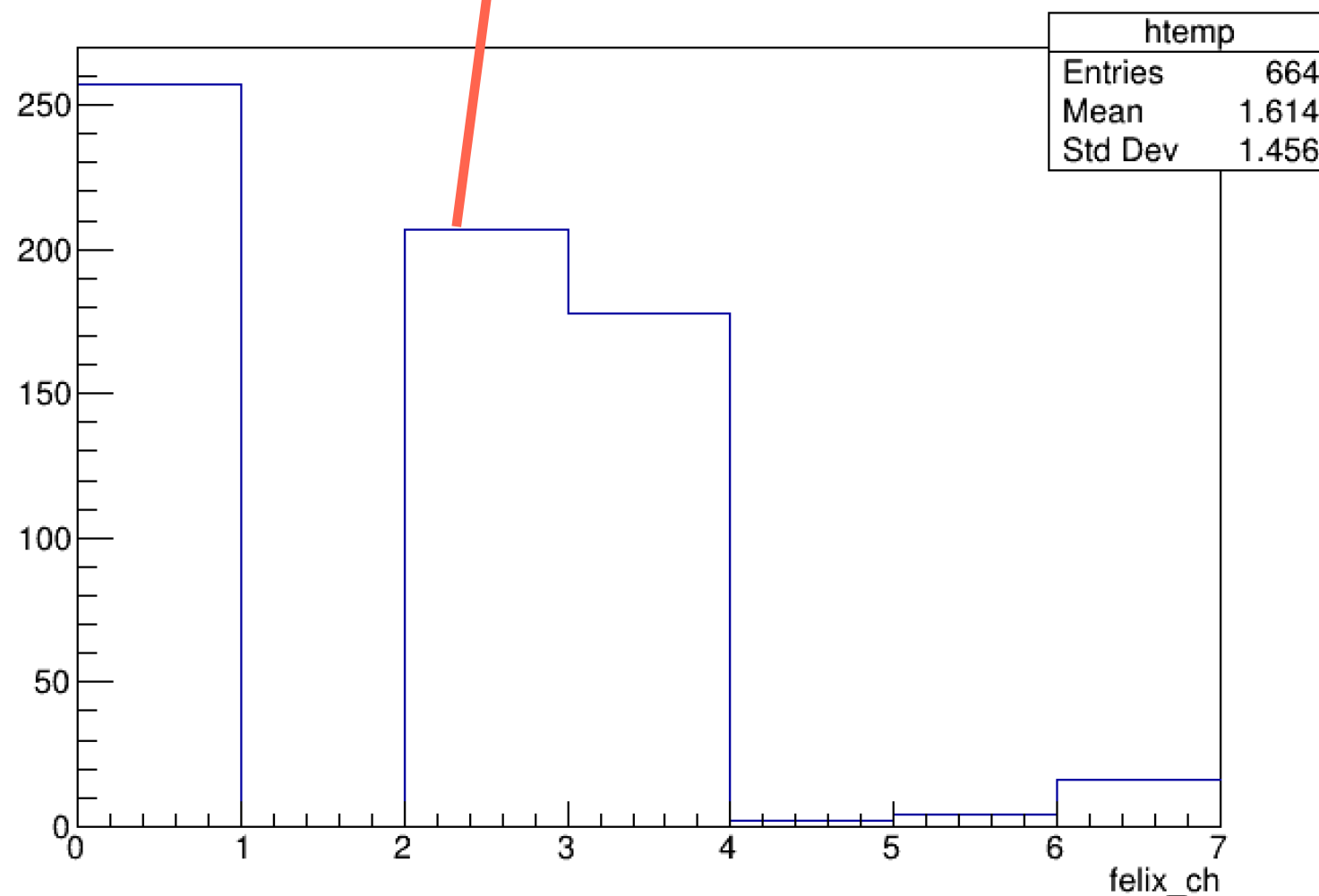


Number of bad channels of RC-1S
based on the file : calib_packv5_040523_0434, threshold : 15





Number of bad channels of RC-1S
based on the file : calib_packv5_040523_0434, threshold : 15



Backup